

WHAT IS CLAIMED IS:

1. A combustion-engined setting tool for driving fastening elements, comprising a fuel source (11); a combustion chamber (13); a fuel guide (12) connecting the fuel source (11) with the combustion chamber (13); at least one electronically controlled valve (24) arranged in the fuel guide (12) between the fuel source (11) and the combustion chamber (13); a control unit (20) for opening the electronically controlled valve (24) for a predetermined, by the control unit (20) time period; and a storage chamber (21) arranged between the electronically controlled valve (24) and the combustion chamber (13).

2. A setting tool according to Claim 1, further comprising actuation means (25) that generates a valve opening signal when the setting tool is lifted off a constructional component (U), the control unit (20) opening the electronically controlled valve (24) for the predetermined time period in response to the opening signal generated by the actuation means (25).

3. A setting tool according to Claim 1, further comprising actuating means (15) actuatable when the setting tool (10) is pressed against a constructional component (U); and a piston (14.1) arranged in the storage chamber (21) and displaceable in response to actuation of the actuating means (15).

4. A setting tool according to Claim 1, further comprising a check valve (34.1) arranged in the fuel guide (12) between the electronically controlled valve (24) and the combustion chamber (5).

5. A setting tool according to Claim 1, comprising actuating means (15) having an initial position corresponding to an initial position of the setting tool (10) in which the storage chamber (21) is disconnected from the combustion chamber (13) and the electronically controlled valve (24) is connected with the storage chamber (21), and an actuated position corresponding to a press-on position of the setting tool in which the storage chamber (21) is disconnected from the electronically controlled valve (24) and is connected with the combustion chamber (13); and a shuttle valve (14.2) arranged in the fuel guide (12) for displacement between a first switching position (52) corresponding to the initial position of the actuating means (15) and in which the shuttle valve (14.2) connects the electronically controlled valve (24) with the storage chamber (21); disconnecting the storage chamber (21) from the combustion chamber (13), and a second switching position (53) corresponding to the actuated position of the actuating means (15) and in which the shuttle valve (14.2) connects the storage chamber (21) with the combustion chamber (13), disconnecting the storage chamber (21) from the electronically controlled valve (24).

6. A setting tool according to Claim 5, further comprising a check valve (34.2) provided in the fuel guide (12) between the shuttle valve (14.2) and the combustion chamber (13).

7. A setting tool according to Claim 1, further comprising sensor means (22.1, 22.2) for detecting air pressure, temperature, and air humidity, and data transmitting means (41, 42) for connecting the sensor means (22.1, 22.2) with the control unit (20).

8. A setting tool according to Claim 1, wherein the electronically controlled valve (24) is formed as a solenoid valve.

9. A setting tool according to Claim 7, wherein the control unit (20) comprises a data processing unit (29) for evaluation and processing of data transmitted by the data transmitting means.